

I. AMENDMENTS TO THE SPECIFICATION

The section below has been amended in the manner required by 37 C.F.R. §1.121, as revised July 30, 2003, showing all changes (i.e., with additions underlined and deleted portions stricken through).

A. IN VARIOUS PARAGRAPHS OF THE SPECIFICATION

Please amend the following **paragraphs** of the application to read as follows.

PAGES 18-19: Please amend the paragraph that spans pages 18 and 19 (i.e., paragraph [65]) as directed below.

Located between rods A and H, rods B and C, rods D and E and rods F and G are the four active decoupling networks 1111, 1112, 1113 and 1114, respectively. These define the four modes of head coil 1000 for purposes of the parallel imaging techniques for which the invention is designed. As noted above, in each active decoupling network, a port connector J1 is connected across the terminals of a PIN diode D1 for purposes of decoupling and coupling the head coil from and to the host MR system, respectively. Each such port connector J1 can be connected by a coaxial cable type lead to one of the eight channels of the host 8-channel MR system for the purpose of acquiring an image of the head using parallel imaging techniques. In a preferred configuration, the head coil [100] 1000 of the invention would therefore occupy four channels of the host 8-channel MR system, the anterior neck coil shown in Figure 8 would occupy two channels, and the C-spine coil of Figure 9 the last two channels. As should be apparent from this disclosure, head coil 1000 may thus be used with other local coil components to form a Neurovascular Array. Other configurations and operational modes, of course, are contemplated by this invention.